



U.S. Department of Energy  
Office of Civilian Radioactive Waste Management



# Small Business Discussion

Presented to:  
**9<sup>th</sup> Annual U.S. Department of Energy  
Small Business Conference**

Presented by:  
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Office of Project Management & Procurement**

**June 25, 2008  
San Antonio, Texas**

# Discussion Topics

- **Who We Are**
- **Some of Our Successes**
- **Future Opportunities**



# Our Vision

**We are valued by our nation for integrity, safety, security, and efficiency for achieving enduring operations for spent fuel and high-level waste disposal at Yucca Mountain.**



# Mission

- Mission:

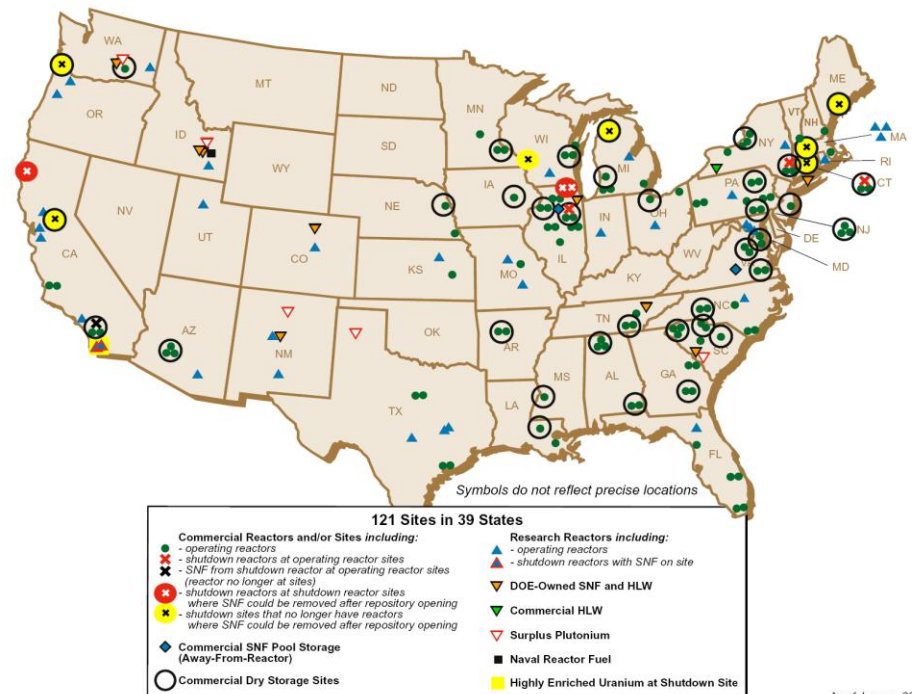
- Our mission is to **manage and dispose** of high-level radioactive waste and spent nuclear fuel in a manner that **protects health, safety, and the environment; enhances national and energy security; and merits public confidence**

- Priorities:

- After 20 years of scientific study, Congress **passed a joint resolution** in 2002 to designate the Yucca Mountain site for repository development and enable DOE to move ahead to submit a license application for repository construction authorization
- Protecting public health, safety, and the environment remains our top priorities

Current locations of spent nuclear fuel (SNF) and high-level radioactive waste (HLW) destined for geologic disposal:

121 sites in 39 states

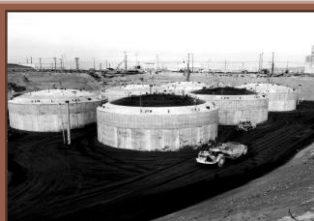


As of January 2008





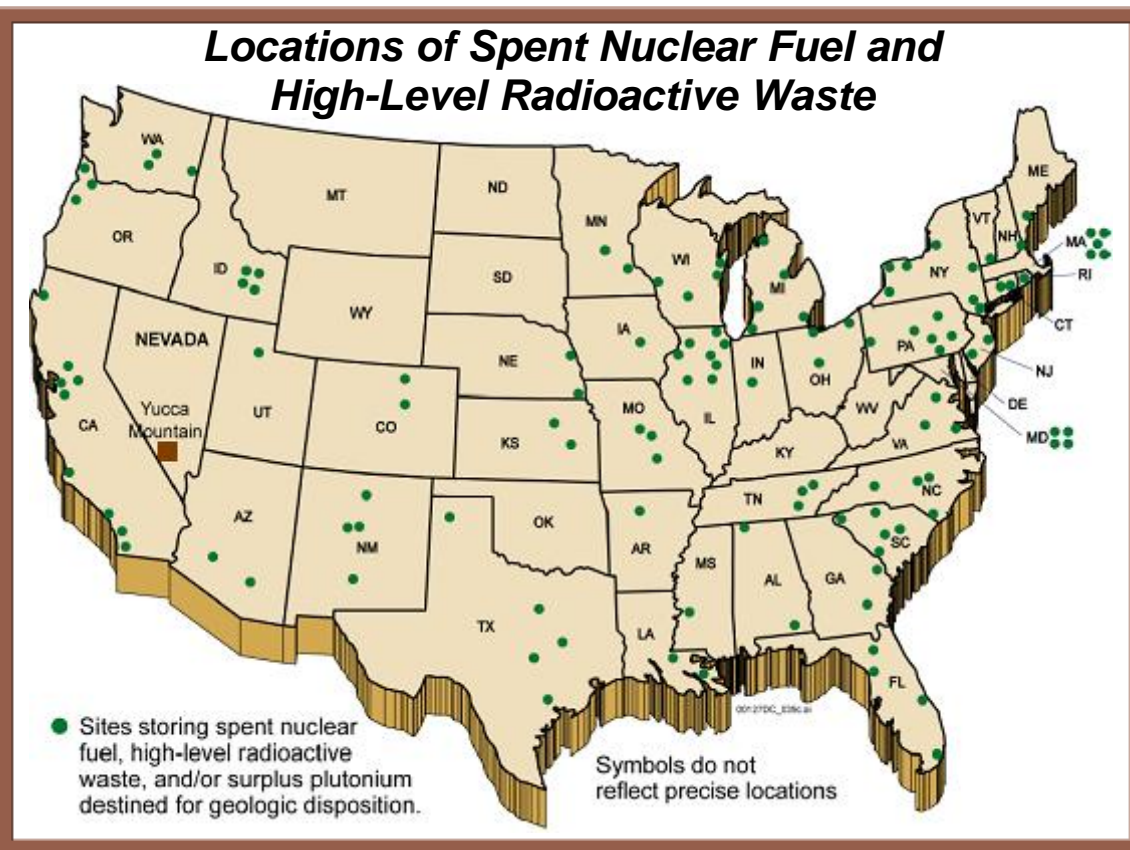
# Geologic Disposal Addresses Multiple Missions



**Defense Complex  
Clean-Up**



**Support of  
Nonproliferation  
Initiatives, e.g.  
Disposal of DOE  
Foreign Research  
Reactor Spent  
Fuel**



**Commercial  
Spent Nuclear  
Fuel**

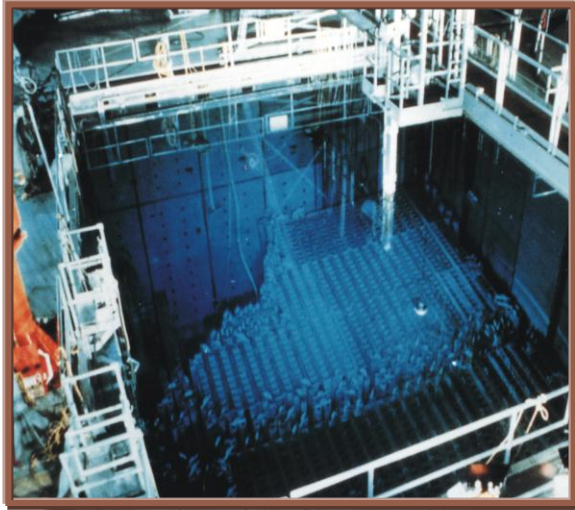


**Disposition of  
Naval  
Reactor Spent  
Nuclear Fuel**



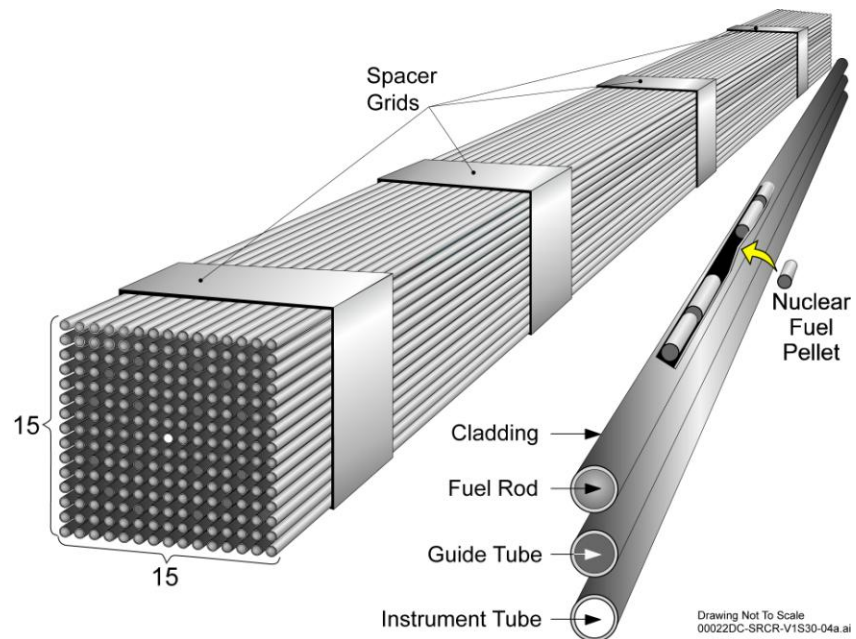
# Spent Fuel Statistics

Spent fuel is stored in large pools of water to shield its radioactive properties



Or, spent fuel is stored in above-ground dry casks

- Nuclear power plants are producing about 20% of the electricity in the U.S.
- 72 plant sites with spent fuel
- Five Department of Energy (DOE) sites with spent fuel
- 39 states with spent fuel
- 57,700 metric tons of spent fuel existed in December 2007
- 119,000 metric tons of spent fuel projected by 2035



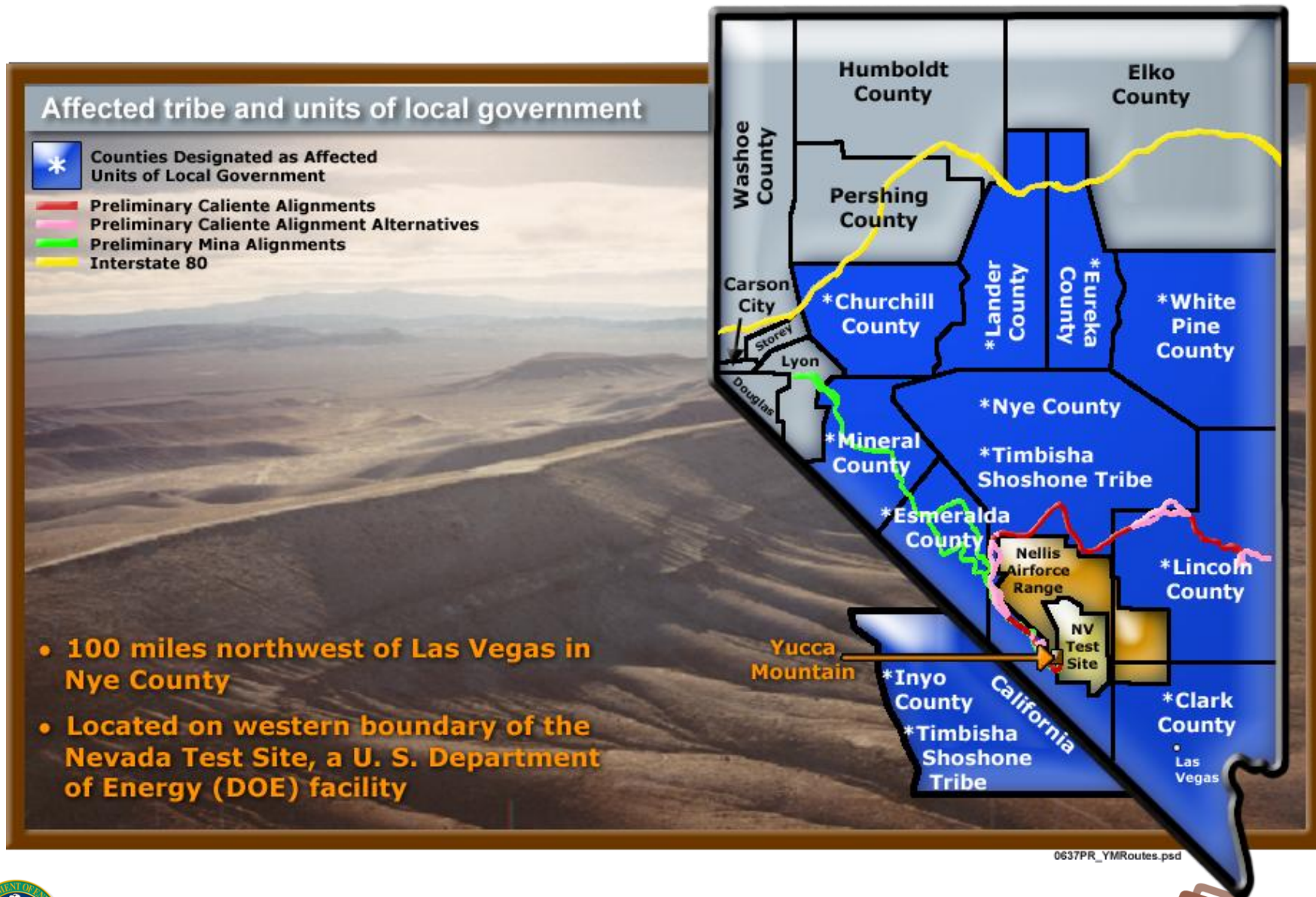
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Spent Fuel Assembly

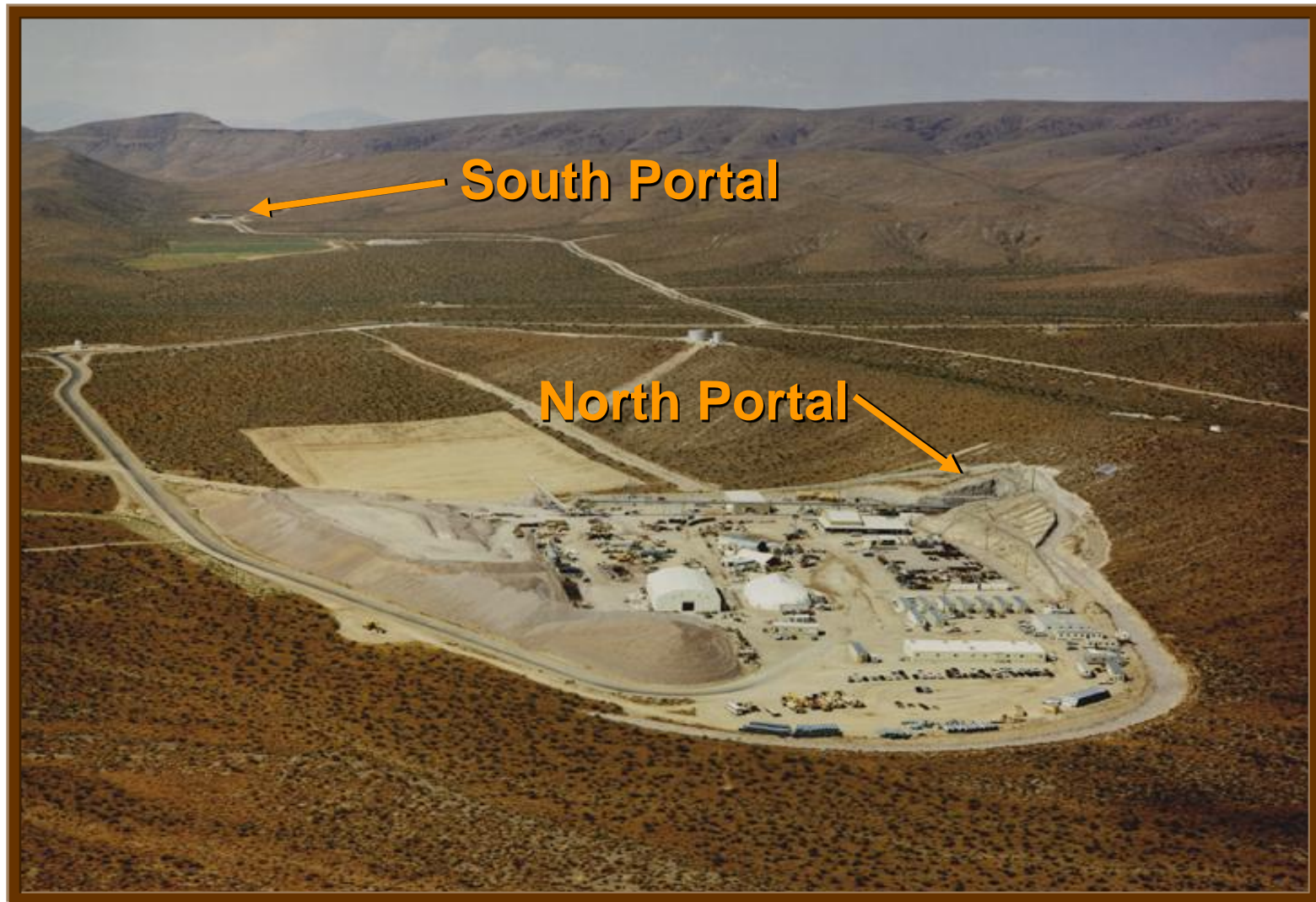




# Yucca Mountain, Nevada



# Yucca Mountain Surface at Exploratory Studies Facility Portals





# Our Successes

- **Transitioned General Technical Support Services from large business to 8(a) contractor**
  - Legin Group, Inc.
  - \$45M over 5 years
- **Transitioned Facility Security Services from large business to 8(a) contractor**
  - Power Services, Inc.
  - \$325K over 5 years



# Our Successes

- **Strong support from Management & Operating contractor, Bechtel SAIC Company, LLC**
  - **Small Business Achievement Award**
- **Consistently exceed small business goals**
- **Dedicated Small Business Specialist**



# Future Opportunities

- **OCRWM has three primary projects**
  - **Yucca Mountain Project**
  - **Nevada Rail Line Project**
  - **National Transportation Project**
- **Integrated Acquisition Strategy approved in December 2007**





# Yucca Mountain Project

- **OCRWM has selected a path forward to procure the services needed to design and construct the Yucca Mountain repository**
  - **Management & Operating contract**
  - **Multiple fixed-price construction contracts**



# Yucca Mountain Project

- **Management & Operating contract:**
  - **Support DOE in the Nuclear Regulatory Commission's Yucca Mountain licensing proceedings**
  - **Provide detailed design of nuclear and associated non-nuclear facilities**
  - **Provide construction management and construction support**
  - **RFP includes 46% total small business and mentor protégé program**



# Yucca Mountain Project

- **Multiple fixed-price construction contracts**
  - **Construct nuclear and associated non-nuclear facilities**
  - **Construct subsurface (tunnel) facilities**
  - **Construct site infrastructure facilities**
    - ◆ **Warehouses, shops, utility facilities, etc.**
    - ◆ **Preference to small businesses**





# Nevada Rail Line Project

- **OCRWM has selected a path forward to procure the services needed to design and construct a rail line**
  - **Construction Manager**
  - **Multiple design-build contracts**



# Nevada Rail Line Project

- **Construction Manager**
  - **Provide technical expertise**
  - **Advance the Nevada Rail Line design**
  - **Develop conceptual design for related transportation facilities**
  - **Support OCRWM in performing quality control and safety activities during construction**



# Nevada Rail Line Project

- **Multiple Design-Build Contracts**
  - **Construct bridges, culverts, embankments necessary to place the ties and rail steel**
  - **Placement of the signaling, ties, and rail steel**
  - **Construction of surface support facilities**
  - **Small business opportunities with road work and surface facilities**





# National Transportation Project

- **Perform systems engineering and operations studies for transportation planning**
- **Procurement of specialty equipment such as rail cars, casks, and supporting equipment**



# OCRWM Point of Contact

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